SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 500 - STRUCTURES
AMENDMENT TO SUBSECTION 520 – PORTLAND CEMENT CONCRETE

Amend 1.2 Table 1A to read:

1.2 Classes of concrete. The following classes of concrete are included in these specifications Table 1A - Method and Table 1B - Performance (QC/QA).

Table 1A - Classes of Concrete

Concrete Class	Minimum Expected 28 Day Compressive Strength[1]	Maximum Water/Cement Ratio[2]	Entrained Air Percent	Permeability **Target Value[6]**
	PSI (Mpa)			Coulombs
AAA[3]	5,000 (35)	0.400	5 to 9	2000
AAA	5,000 (35)	0.444	5 to 9	
AA[3]	4,000 (30)	0.400	5 to 9	2000
AA	4,000 (30)	0.444	5 to 9	2000
A	3,000 (20)	0.464	4 to 7	4000
B	3,000 (20)	0.488	3 to 6	
T	3,000 (20)	0.559	----	
F	30[4] (0.2)	3.0 to 4.0[5]	15 to 25[5]	

[1] See 3.1.6 TESTING

[2] For mixes containing fly-ash, silica fume, slag, or any other pozzolanic or cementitious material, the water/cement ratio of the concrete mix shall be based on the water cementitious (cement + pozzolanic or cementitious material) ratio of the mix. This water to cementitious ratio shall not exceed those listed in Table 1A. The maximum water/cement ratios listed for Concrete Class B and T are for design purposes only.

[3] Deck Overlays.

[4] Maximum 84 day Compressive Strength for Flowable Fill, Excavatable shall not exceed 200 psi (1.4 Mpa).

[5] These are recommended values that may be used as a starting point for a mix design that has shown ability to meet the requirements. The amount of cement shall be adjusted and fly-ash or ground granulated blast furnace slag shall be used provided the mix design meets the minimum and does not exceed the maximum compressive strength in accordance with 2.11.1.

[6] Target values shown are for mix design approval only and are not intended for use as quality control or quality assurance requirements.